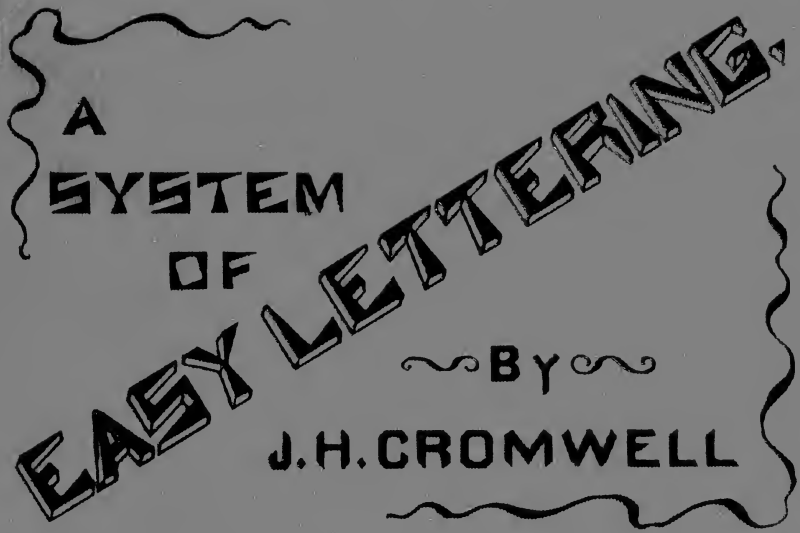


T
371
.C955



A
SYSTEM
OF

EASY LETTERING

By

J. H. CROMWELL

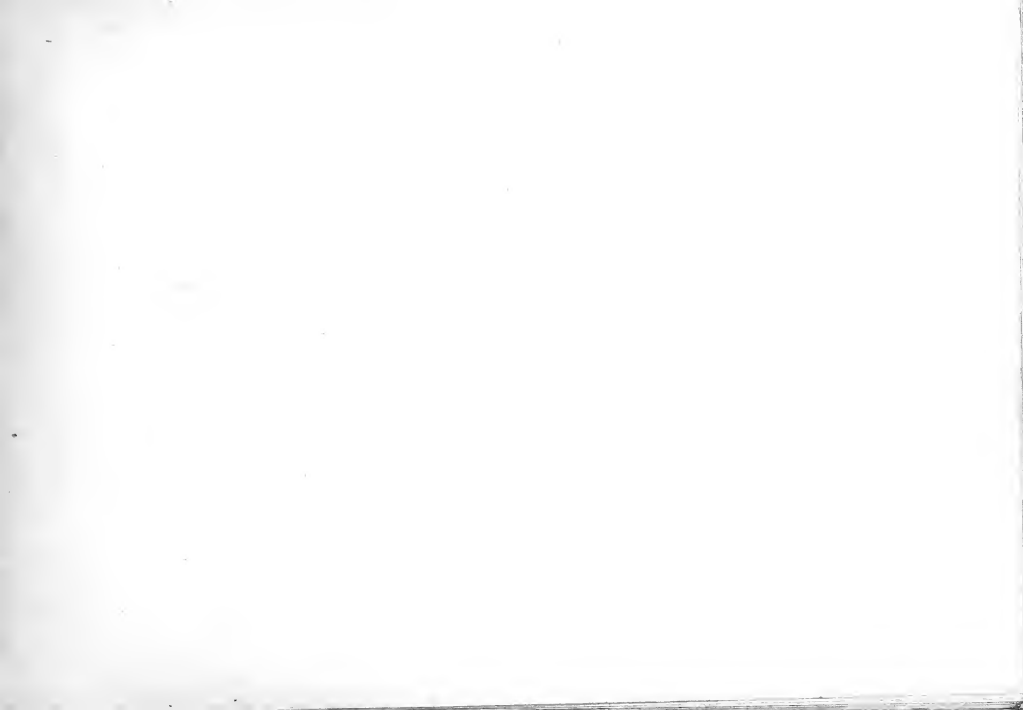


Class T 371

Book C 955

Copyright N^o _____

COPYRIGHT DEPOSIT









A SYSTEM
OF
EASY LETTERING

BY
J. HOWARD CROMWELL, Ph.B.

WITH A
SUPPLEMENT SHOWING THIRTEEN NEW ALPHABETS

BY
GEORGE MARTIN AND J. G. HENDRICKSON, M.E.

Twelfth Edition Enlarged.

NEW YORK:
SPON & CHAMBERLAIN, 123-125 LIBERTY STREET

1912

COPYRIGHT 1887.

COPYRIGHT, 1903

BY

SPON & CHAMBERLAIN

COPYRIGHT, 1912

BY

SPON & CHAMBERLAIN

BURR PRINTING HOUSE, NEW YORK

01

\$.50

©Cl. A330067

No 1

NOTE TO THE TWELFTH EDITION

We believe that all who have lettering to do will find in this book much of unusual value, either by way of suggestions or in the use of the various alphabets shown, for the special work in hand. To those who have done no lettering whatsoever the system here presented offers a simple and easy means of accomplishing most satisfactory results.

A rough sketch with a pencil of the lettering required can easily be made upon a piece of Cross Section paper, and if so desired the sketch inked in. The general effect will then be seen at a glance. This sketch may then be used as a copy, or in the case of lettering to be placed on a tracing, the copy may be slipped under the tracing in the position desired, and rapidly traced. This makes a quick and accurate method of lettering a drawing or other piece of work.

To the original alphabets fifteen styles have been added in successive editions, making a total of forty-one alphabets in the present work. Four of these have never before been included and all have been designed and adapted to meet the widest possible range of usefulness.

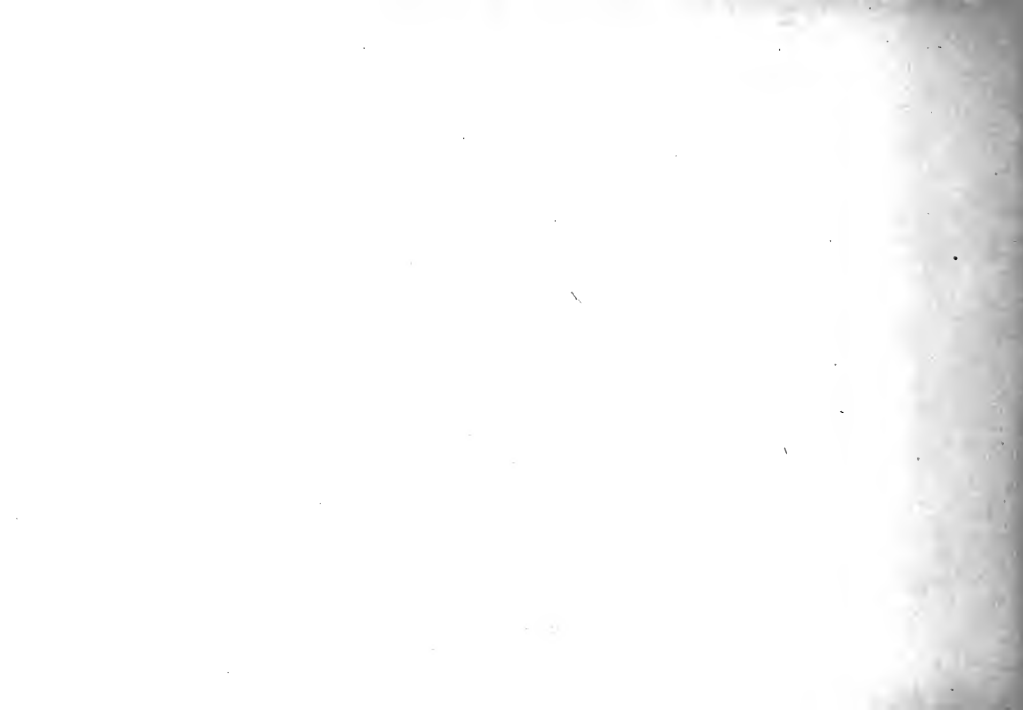
THE PUBLISHERS.

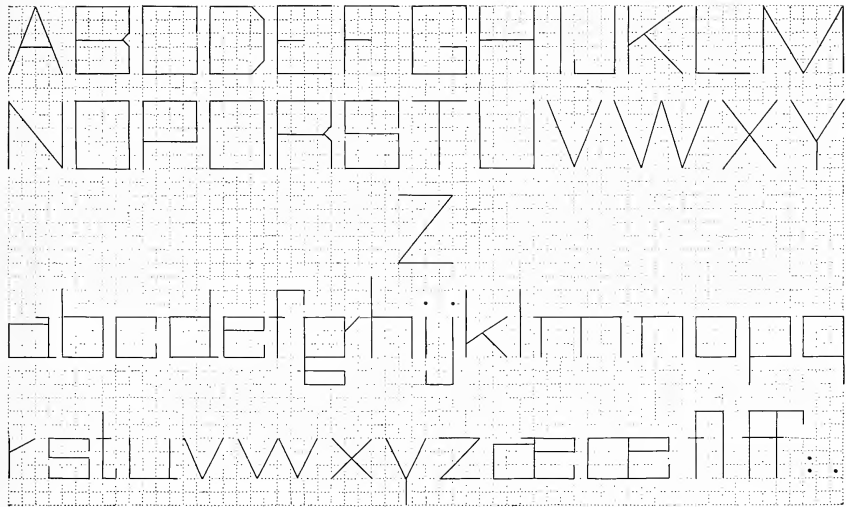
P R E F A C E

The formality of a preface may seem scarcely necessary for the supplementing of a system as simple and comprehensible as the one herewith presented.

We have but to divide any surface we may wish to letter into squares (or parallelograms as the case may be), in pencil lines; form the required letters, in ink or paint, and according to the style chosen; erase the pencil lines, and the lettering is complete.

J. H. C.





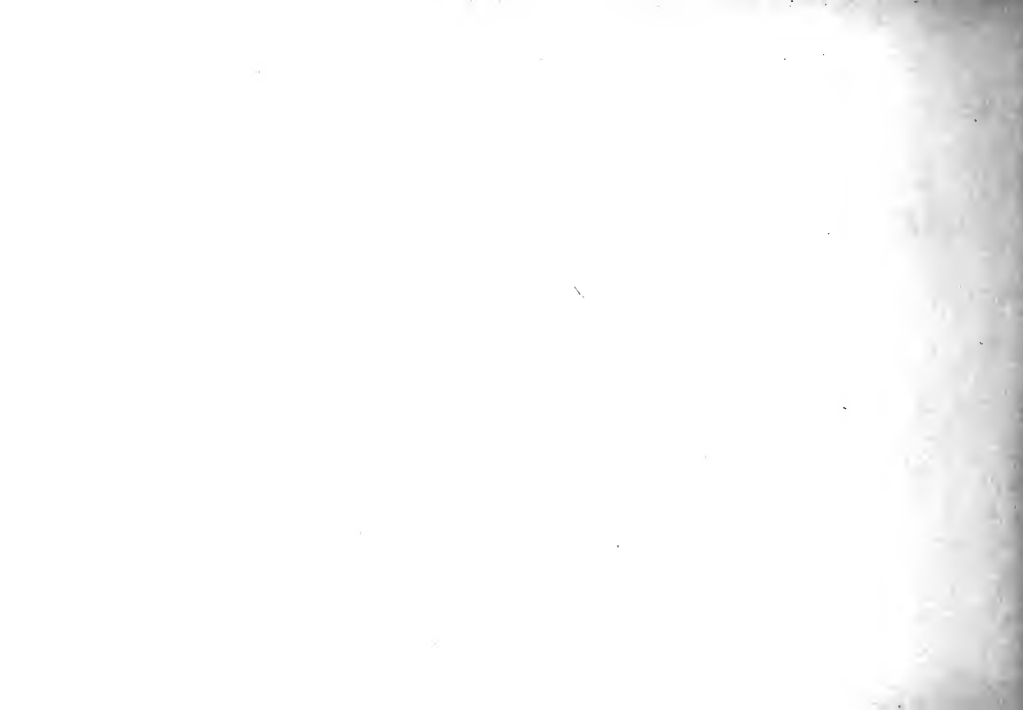
A B C D E F G H I J K L M

N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n o p q

r s t u v w x y z æ œ ð ñ ò



A B C D E F G H I J K L M

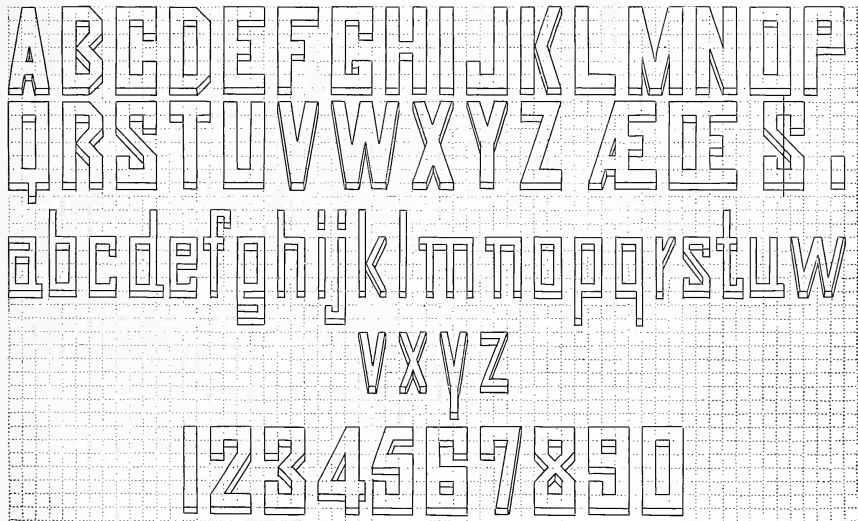
N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n o p q

r s t u v w x y z œ œ ð ð ð ð .

A B C D E F G H I J K
L M N O P Q R S W
T U V X Y Z
a b c d e f g h i j k l m n o p
q r s t u v w x y z æ f M .



A B C D E F G H I J K L M

N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n

o p q r s t u v w x y z , .

A B C D E F G H I J K L

M N O P Q R S T U V

W X Y Z

a b c d e f g h i j k l m n o

p q r s t u v w x y z æ ; :



A B C D E F G H I J K L N

M O P Q R S T U V W X

Y Z

a b c d e f g h i j k l m n o p

q r s t u v w x y z æ œ ÷ ∴

A B C D E F G H I J K L M

N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n o p q

r s t u v w x y z œ œ ð ð ð .



A B C D E F G H I J K L

M N O P Q R S T U V Z

W X Y

a b c d e f g h i j k l m

n o p q r s t u v w x z



A B C D E F G H I J K L

M N O P Q R S T U V Z

W X Y

a b c d e f g h i j k l m n o p

q r s t u v w x y z æ œ ı ı

A B C D E F G H I J K L M

N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n o p q

r s t u v w x y z œ œ ð ð ð ð .





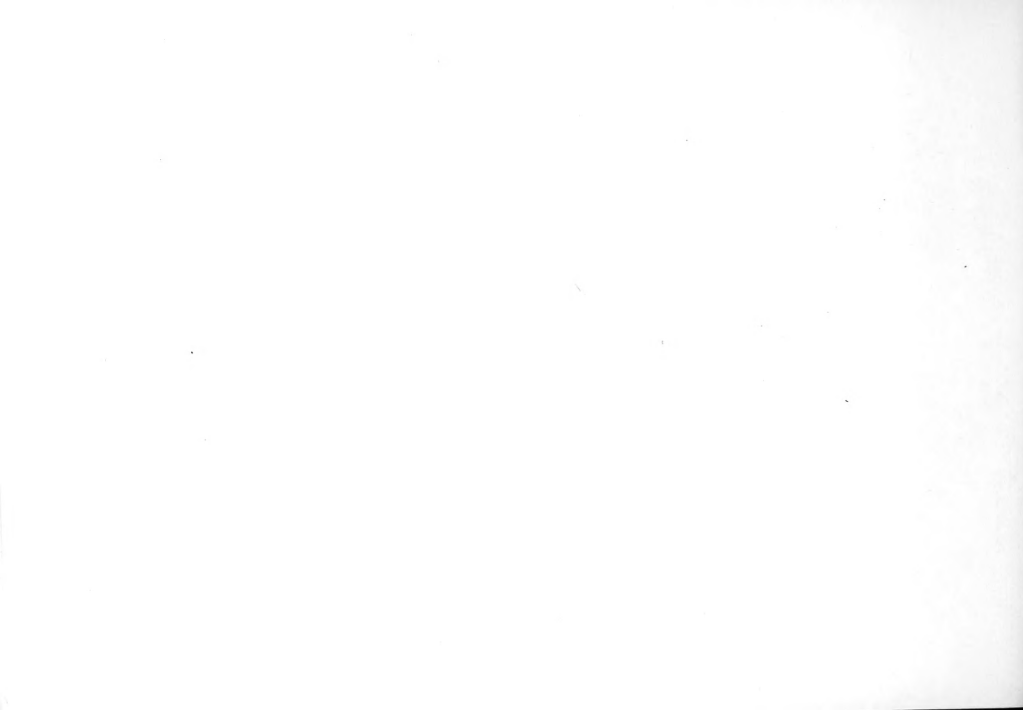
A B C D E F G H I J K L M

N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n o p q

r s t u v w x y z œ œ ð ð , ;



A B C D E F G H I J K L M

N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n o p q

r s t u v w x y z æ œ Æ Æ , .

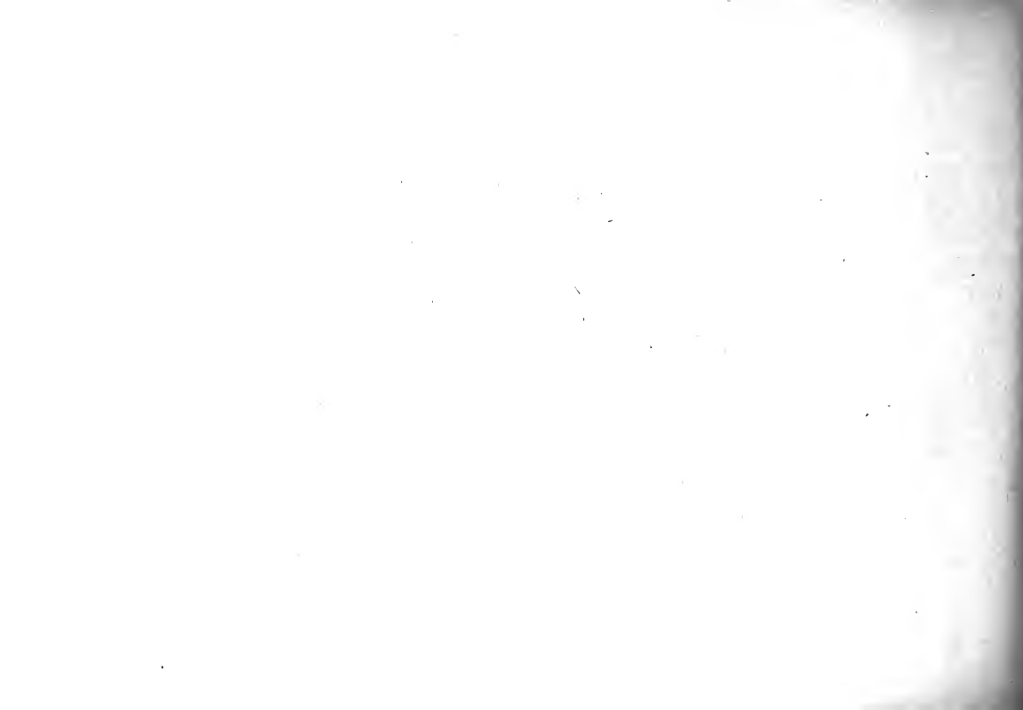
A B C D E F G H I J K L M

N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n o p q

r s t u v w x y z œ æ ð ñ , ; .



A B C D E F G H I J K L M

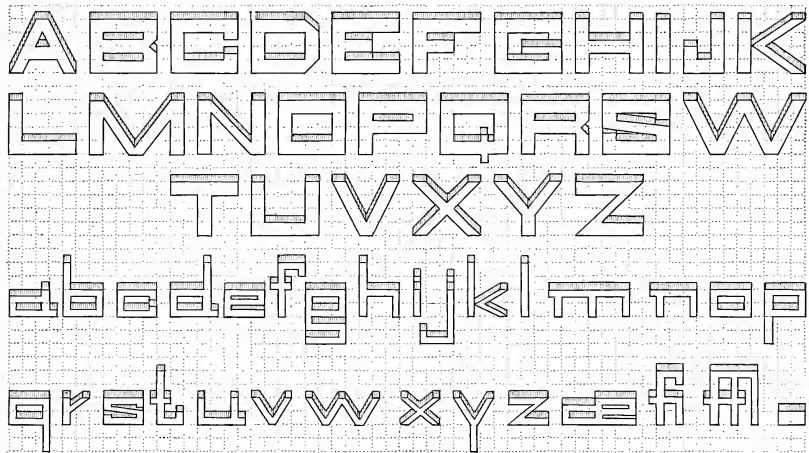
N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n o p q

r s t u v w x y z œ œ ð ð ð ð .





A B C D E F G H I J K L

M N O P Q R S T U V W

X Y

a b c d e f g h i j k l m n o p

q r s t u v w x y z o e d f .

A B C D E F G H I J K L M N O P
Q R S T U V W X Y Z A E E S .
a b c d e f g h i j k l m n o p q r s t u w
v x y z
1 2 3 4 5 6 7 8 9 0



A B C D E F G H I J K L M N O P

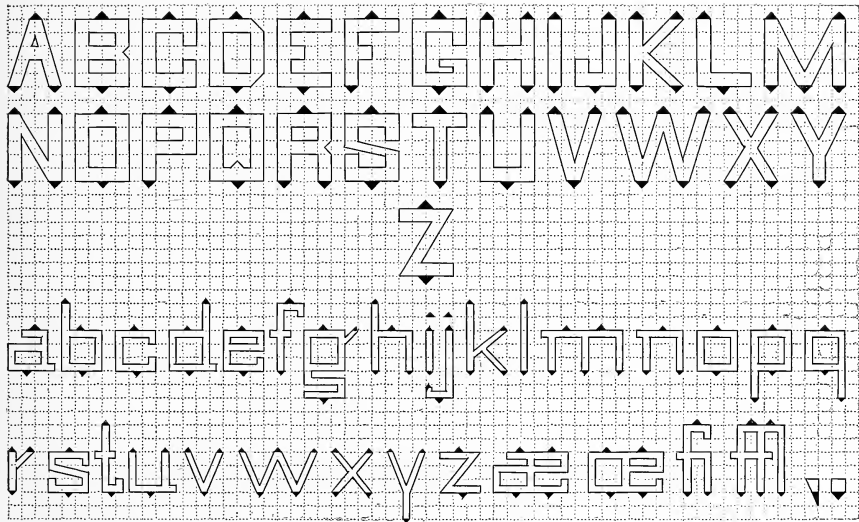
Q R S T U V W X Y Z Æ Æ Š .

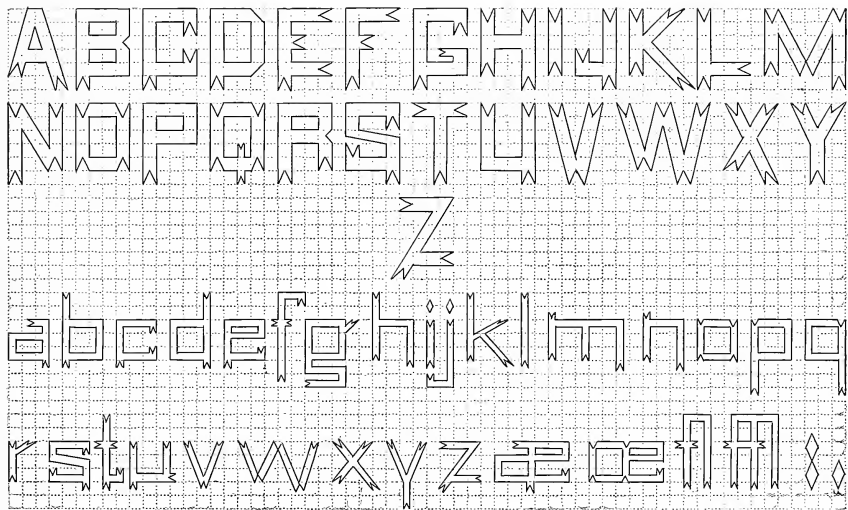
a b c d e f g h i j k l m n o p q r s t u w

æ œ v x y z ,

1 2 3 4 5 6 7 8 9 0 :







A B C D E F G H I J K
L M N O P Q R S T W
U V X Y Z
a b c d e f g h i j k l m n o
p q r s t u v w x y z f i l a e .

A B C D E F G H I J K L M

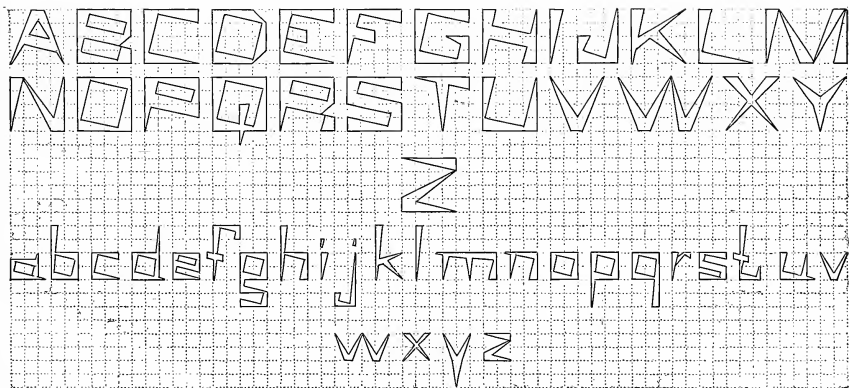
N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n o p q

r s t u v w x y z æ Æ Ħ ħ ſ ſ.















A SUPPLEMENT

TO

EASY LETTERING

BY

GEORGE MARTIN AND J. G. HENDRICKSON, M.E.





A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v
w x y z 1 2 3 4 5 6 7 8 9 0

A B C D E F G H I J K L M N O P Q R S T U V

W X Y Z &

1 2 3 4 5 6 7 8 9 0

a b c d e f g g h i j k l m n o p q

r s t u v w x y z

A B C D E F G H I J K
L M N O P Q R S T U
V W X Y Z 1 2 3 4 5 6 7
8 9 0 a b c d e f g h i j k l m n o p q
r s t u v w x y z

A B C D E F G H I J K L M
N O P Q R S T U V W X Y
Z &

a b c d e f g g h i j k l m n o p q r
s t u v w x y z | 2 3 4 5 6 7 8 9



A B C D E F G H I J K L
M N O P Q R S T U V
W X Y Z 1 2 3 4 5 6 7 8 9 0
a b c d e f g h i j k l m n o p q r s t u v w x y z.



A B C D E F G H I J K L M

N O P Q R S T U V W X Y Z

a b c d e f g h i j k l m n o p q r s t u

v w x y z v w x y z 1 2 3 4 5 6 7 8 9 0

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z &

a b c d e f g h i j k l m n o p q r s t u v w x y z 1 2 3 4 5 6 7 8 9 0



ABCDEFGHIJKL

MNOPQRSTUVWXYZ

XYZ

abcdefghijklmnopqr

stuvwxyz 1234567890

THE L. GILBERT CORPORATION, ENGRAVERS, N.Y.



A B C D E F G H I J K
L M N O P Q R S T U
V W X Y Z : ; , .
1 2 3 4 5 6 7 8 9 0

DESIGNED BY J.G. HENDRICKSON

A B C D E F G H I J K
L M N O P Q R S T U
V W X Y Z : , .
1 2 3 4 5 6 7 8 9 0

DESIGNED BY J.G. HENDRICKSON

A B C D E F G H I J K
L M N O P Q R S T U
V W X Y Z . , !

A B C D E F G H I J K L M N O P
Q R S T U V W X Y Z

DESIGNED BY J. G. HENDRICKSON



A B C D E F G H I J
K L M N O P Q R S
T U V W X Y Z &
a b c d e f g h i j k l m n
o p q r s t u v w x y z
1 2 3 4 5 6 7 8 9 0





CROSS SECTION PAPERS,

BOOKS AND PADS.

BOOKS BLUE INK.

The Handy Sketching book. Size 5 x 8 in. limp card cover, ledger paper, scale plain 8 to 1 in., with useful tables. \$.25

The Electrician's Sketching Book. Size 5 x 8 in., limp card cover, ledger paper, scale 10 to 1 in., with heavy in. lines and useful tables. \$.25

PADS BLUE INK.

The Handy Sketching Pad. Size 8 x 10 in., ledger paper scale plain 8 to 1 in. with useful tables, \$.25

The Electrician's Plotting Pad. Size 8 x 10 in., ledger paper, scale 10 to 1 in. with heavy in. lines with useful tables \$.25

The Plotting Pad. Size 8 x 10 in., ledger paper, scale 8 to 1 in. with heavy in. lines \$.25

The Sketching Pad. Size 8 x 11 in., bond paper, scale 16 to 1 in., with heavy inch lines. \$.25

PAPERS BLUE INK.

Scale plain 8 to 1 in., sheets 8 x 10, per 100, \$1.00

“ 16 to 1 in., heavy in. lines, sheet 9 x 11, per 100 \$1.00

“ 8 to 1 in., heavy in. lines, sheet 17 x 22 per quire 1.00

“ 10 to 1 in., heavy in. lines, sheet 17 x 22, “ “ 1.00

SPON & CHAMBERLAIN

Publishers of TECHNICAL BOOKS

123-125 Liberty Street New York, U.S.A.

25c. BOOKS.

ELECTRICITY. The study of, and its laws for beginners, comprising the laws of electric current generation and flow, Ohm's law, galvanism, magnetism, induction, principles of dynamos and motors, wiring, with explanations of simple mathematics as applied to electrical calculations. By N. H. SCHNEIDER. With 55 original illustrations and 6 tables.

DRY BATTERIES. A practical handbook on the designing, filing and finishing of dry batteries, with tables, for automobiles, gas engine, medical and coil work, electric bells, alarms, telephones, experiments and all purposes requiring a first-rate battery. Fully illustrated with 30 original drawings.

ELECTRICAL CIRCUITS AND DIAGRAMS. Being a selection of original up-to-date and practical diagrams for installing annunciators, alarms, bells, electric gas lighting, telephones, electric power light and wiring circuits, induction coils, gas engine igniters, dynamos and motors, armature windings. By N. H. SCHNEIDER.

ELECTRIC BELLS AND ALARMS. How to install them. By N. H. SCHNEIDER. Including batteries, wire and wiring, circuits, pushes, bells, burglar alarms, high and low water alarms, fire alarms, thermostats, annunciators, and the locating and remedying of faults. With 56 original diagrams.

MODERN PRIMARY BATTERIES. Their construction, use and maintenance, including batteries for telephones, telegraphs, motors, electric lights, induction coils, and for all experimental work. By N. H. SCHNEIDER. 94 pages, 55 illustrations. The best and latest American book on the subject.

EXPERIMENTING WITH INDUCTION COILS. H. S. NORRIS, author of "Induction Coils and Coil Making." A most instructive little book, full of practical and interesting experiments, fully explained in plain language with numerous hints and suggestions for evening entertainments. Arranged under the following headings: Introduction; The Handling of Ruhmkorff Coil; Experiments with Sparks; Effects in the Vacuum; Induction and Wireless Telegraphy. With 36 original illustrations. [In the press]

SMALL ACCUMULATORS. How made and used, by P. MARSHALL. Giving full descriptions how to make all the parts, assemble them, charge the cells and run them, with examples of their practical application. Useful receipts and memoranda and a glossary of technical terms. 80 pages, 40 illustrations, paper.

ELECTRIC GAS LIGHTING. How to install Electric gas igniting apparatus including the jump spark and multiple systems for all purposes. Also the care and selection of suitable batteries, wiring and repairs, by H. S. NORRIS. 101 pages, 57 illustrations, paper.

25 Cent Books.

INDUCTION COILS. How to Make and Use Them, by P. MARSHALL. New edition revised and enlarged by K. SROYE. A practical handbook on the construction and use of medical and sparking coils for automobiles and gas engines. Fully illustrated with table of windings for coils of $\frac{1}{4}$ inch to 12 inch sparks.

THE MAGNETO TELEPHONE. Its construction, fitting up and use, by NORMAN HUGHES. Giving full particulars for planning out a short line, putting up the insulators, stringing wires, connecting instruments, with suitable batteries. 80 pages, 23 illustrations, including a number of diagrams of circuits.

PRACTICAL ELECTRICS. A universal handy book on everyday electrical matters, including connections, alarms, batteries, bells, carbons, induction and resistance coils, dynamos, measuring, microphones, motors, telephones, phonographs, photophones, etc. 135 pages, 126 illustrations.

WIRELESS TELEGRAPHY. How to Make an Experimental Wireless Telegraph Outfit at Home, without much expense. By A. F. COLLINS. Illustrated, with diagrams.

ELECTRIC BELLS AND ALARMS. By F. E. POWELL. A handbook on their construction, installation and repair.

ELECTRIC BATTERIES. How to Make and Use Them. By P. MARSHALL. Dealing with a number of well-known types of batteries. Including the Grouping of Cells. Illustrated.

MODEL STEAM ENGINE DESIGN. A handbook for the Designer of small Model Steam Engines, including original tables and calculations for speed, power, proportions of pumps, compound engines, and valve diagrams. By ROBERT M. DE VICNIER. Contents of Chapters: 1. Various Types. Speed of Model Engines. 2. Power Calculations. Materials. 3. Feed Pumps. 4. Compound Engines. 5. The Valve Diagram. 6. Engine Layout. Patents. 102 pages, 34 illustrations.

MODEL STEAM ENGINES. How to Understand Them and How to Run Them. By H. GREENLY. Including examples of stationary locomotive, portable and marine engines. With different kinds of boilers and methods of getting up steam, as well as engine details and valve mechanisms, etc. 87 pages and 55 illustrations.

MODEL RAILWAYS. A handbook on the choice of Model Locomotives and Railway Equipment, including designs for rail formations, and Model Railway Signaling, by W. J. BASSETT-LOWKE. 72 pages, 76 illustrations.

SIMPLE PHOTOGRAPHIC EXPERIMENTS. A series of instructive experiments in Practical Photography. T. T. BAKER. 68 pages, 14 illustrations.

Price, 25c. Each.

MAKING WIRELESS OUTFITS. By NEWTON HARRISON, E.E. A concise and simple explanation on the construction and use of simple and inexpensive wireless equipments, for sending and receiving up to 100 miles, giving full details and drawings of apparatus, diagrams of circuits and tables. Including the Morse and Continental Codes. 61 pages, 27 illustrations.

CIRCUITS AND DIAGRAMS. Part 2. By NORMAN H. SCHNEIDER. Alternating Current Generators and Motors: Single Phase and Polyphase Transformers: Alternating Current and Direct Current Motor Starters and Reversers: Arc Generators and Circuits: Switch-Wiring: Storage Battery: Meter Connections: etc. etc. 69 original drawings, with full explanations.

ALTERNATING CURRENTS SIMPLY EXPLAINED. An Elementary Handbook on Alternating Current Generators, Transformers, and Motors. By ALFRED W. MARSHALL. This book is written for those who desire elementary information about Alternating electric currents, simply written and yet intensely interesting. Contents of Chapters:—1. What an Alternating Current is. 2. How Alternating Currents are Produced. 3. How Alternating Currents are Measured. 4. Transformers and Choking Coils. 5. Alternating Current Motors. 6. Rotary Converters. 7. Rectifiers. 82 pages, 32 illustrations.

INDUCTION COILS. How to Make and Use Them, by P. MARSHALL. New edition revised and enlarged by K. STOVE. A practical handbook on the construction and use of medical and sparking coils for wireless telegraphy, gas engines, automobiles, gas lighting, X-rays, and all other purposes. With complete tables of windings for coils giving $\frac{1}{4}$ in. spark up to 12 in. sparks. With full description for the construction of mercury interrupters. 76 pages, 35 illustrations.

SIMPLE EXPERIMENTS IN STATIC ELECTRICITY. By P. C. BULL, M.A. Contents of Chapters:—1. Production of electricity by various means. Viz.: friction, heat, pressure, chemical action, etc. 2. Electrical attraction, repulsion, and distribution. 3. Induction. 4. Leyden jars and other condensers. 5. Mechanical, chemical and heating effects. 6. Luminous effects. 7. Miscellaneous experiments. Being a series of instructive and entertaining electrical experiments. 72 pages, 51 illustrations.

THE MAGNETO TELEPHONE. Its construction, fitting up and use, by NORMAN HUGHES. Giving full particulars for planning out a short line, putting up the insulators, stringing wires, connecting instruments, suitable batteries. 80 pages, 23 illustrations.

PRACTICAL ELECTRICS. A universal handy book on everyday electrical matters, including connections, alarms, batteries, bells, carbons, induction and resistance coils, dynamos, measuring, microphones, motors, telephones, phonographs, photophones, etc. 135 pages, 126 illustrations.

Price, 25c. Each.

WIRELESS TELEPHONE CONSTRUCTION. By NEWTON HARRISON. A comprehensive explanation of the making of a Wireless Telephone Equipment. Both the transmitting and receiving stations fully explained with details of construction sufficient to give an intelligent reader a good start in building a Wireless Telephone system and in operating it. 74 pages and 43 illustrations.

THE WIMSHURST MACHINE. HOW TO MAKE AND USE IT. A practical handbook on the construction and working of Wimshurst machines, including radiography and wireless telegraphy and other static electrical apparatus. By A. W. MARSHALL. Second edition, revised and enlarged. Containing a number of sectional drawings and details to scale. 112 pages, fully illustrated.

SMALL ELECTRICAL MEASURING INSTRUMENTS. How to Make and Use Them. By PERCIVAL MARSHALL. Contents of Chapters:—1. Instruments for testing the presence of an electric current, detectors, galvanometers. 2. Instruments for measuring the pressure or quantity of an electric current, amperemeters, voltmeters. 3. Instruments for measuring electrical resistance, wheatstone bridge. 4. Instruments for measuring static electricity. 5. Practical details for construction. 6. The principles upon which electrical measuring instruments work. 7. How to use electrical measuring instruments. 8. How to choose electrical measuring instruments. 90 pages, 59 illustrations.

INVENTIONS. How to Protect, Sell and Buy Them. By FREDERIC B. WRIGHT. Counsellor in Patent Causes. This book is especially written for the use of Inventors, instructing them how to place their inventions before an Attorney clearly, the rights given them under the Law, Patent specifications, Legal forms, and the many points necessary for an Inventor to know to protect himself under the American Laws. The most practical and clearly written American book on this subject, especially intended for the uninitiated. 114 pages, and 1 sample pattern drawing.

UNIVERSAL TIME CARD MODEL. By setting to the desired hour at any one place the movable model will show at a glance the actual time of all the other places in the world. Printed on stiff card in two colors, size 7 in. by 9 in.

HOW TO BUILD A 20 FT. BIPLANE GLIDING MACHINE, that will carry a man. By A. P. MORGAN. A practical handbook on its construction and management. Enabling an intelligent reader to make his first step in the field of aviation with a comprehensive understanding of some of the principles involved. Fully illustrated with detailed drawings.

25c. BOOKS.

MODEL BOILER MAKING. Contains full instructions for designing and making model stationary, marine and locomotive boilers. Fully illustrated with original working drawings.

METAL WORKING TOOLS AND THEIR USES. A Handbook for Young Engineers and Apprentices. Shows how to use simple tools required in metal working and model making. Illustrated.

SIMPLE MECHANICAL WORKING MODELS. How to make and use them, including stationary engine locomotive, steamboat, waterwheel, etc. With 34 illustrations.

MODEL STEAMER BUILDING. A practical handbook on the design and construction of model steamer hulls, and fittings, with 39 scale drawings.

MACHINERY FOR MODEL STEAMERS. On the design, construction, fitting and erecting of engines and boilers for model steamers, with 44 scale drawings.

THE SLIDE VALVE. Simply explained for working engineers. Fully illustrated.

THE LOCOMOTIVE, simply explained. A first introduction to the study of the locomotive engine, their designs, construction and erection, with a short catechism, and 26 illustrations.

THE BEGINNER'S GUIDE TO THE LATHE. An elementary instruction book on turning in wood and metal. By P. MARSHALL. 76 pages, 75 illustrations.

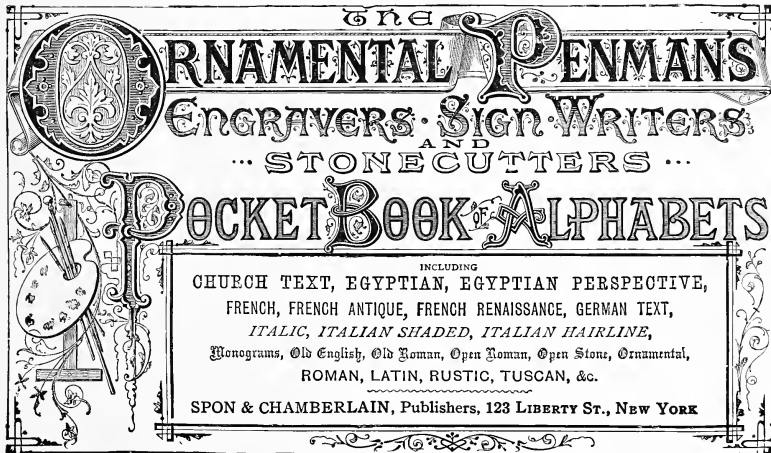
GAS AND OIL ENGINES. A practical handbook on, with instructions for care and running. Illustrated.

STANDARD SCREW THREADS. A Guide to Standard Screw Threads and Twist Drills. (Small sizes.) Illustrated.

STEAM TURBINES. How to design and build them. A practical handbook for model makers. Contents of Chapters. 1. General Consideration. 2. Pressure Developed by an Impinging Jet; Velocity and Flow of Steam Through Orifices. 3. Method of Designing a Steam Turbine. 4. Complete Designs for DeLaval Steam Turbines; Method of Making Vanes; Shrouding. 5. The Theory of Multiple Stage Turbines. Fully illustrated with detail drawings and tables.

MECHANICAL DRAWING, simply explained. Use of instruments, reading and setting out drawings, inking in and finishing, drawings for reproduction, lettering, with 44 illustrations.

PRICE 25 CENTS POSTPAID



THE **ORNAMENTAL PENMANS**
ENGRAVERS · SIGN WRITERS ·
AND
... STONECUTTERS ...
POCKET BOOK OF ALPHABETS

INCLUDING
CHURCH TEXT, EGYPTIAN, EGYPTIAN PERSPECTIVE,
FRENCH, FRENCH ANTIQUE, FRENCH RENAISSANCE, GERMAN TEXT,
ITALIC, ITALIAN SHADED, ITALIAN HAIRLINE,
Monograms, Old English, Old Roman, Open Roman, Open Stone, Ornamental,
ROMAN, LATIN, RUSTIC, TUSCAN, &c.

SPON & CHAMBERLAIN, Publishers, 123 LIBERTY ST., NEW YORK

25c. BOOKS.

SMALL DYNAMOS AND MOTORS. How to make and use them. A practical handbook, by F. E. POWELL. Contents of Chapters:—1. General Considerations. 2. Field Magnets. 3. Armatures. 4. Commutators and Other Details. 5. Tables of Windings. 6. How to Build a Small Machine. 7. Useful Data. 8. Testing and Repairing. 76 pages, fully illustrated with detail drawings.

SMALL ELECTRIC MOTORS. How to make and use them. By F. E. POWELL. Contents of Chapters:—1. Some points in the design of electric motors. 2. Examples of small motors to be worked by battery power. 3. A Model four-pole electro motor. 4. Motors for use on electric lighting circuits. 5. Applications of small motors and the power required for certain work. 6. Starting and speed controlling switches; fuses. 7. Reversing switches for Model motor; gearing, with tables of windings. 75 pages, 48 illustrations.

ELECTRIC BELLS AND ALARMS. A practical handbook on their construction, installation and repair. By F. E. POWELL. 77 pages, 51 illustrations.

ELECTRIC BATTERIES. How to make and use them. Practically describing the common forms of primary batteries. By PERCIVAL MARSHALL. 63 pages, 34 illustrations.

TELEPHONES AND MICROPHONES. A practical handbook on their construction and use. By PERCIVAL MARSHALL. Including testing, faults and their remedies. 80 pages, 33 illustrations.

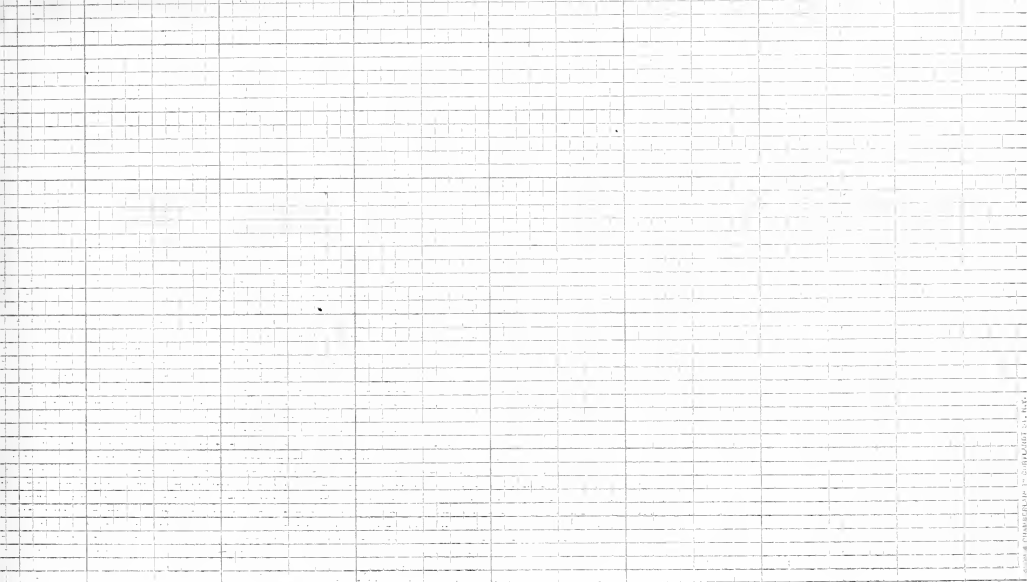
SIMPLE ELECTRICAL WORKING MODELS. By PERCIVAL MARSHALL. Showing the construction of electrical toys and novelties, easily constructed with a few tools from simple materials. 69 pages, 43 illustrations.

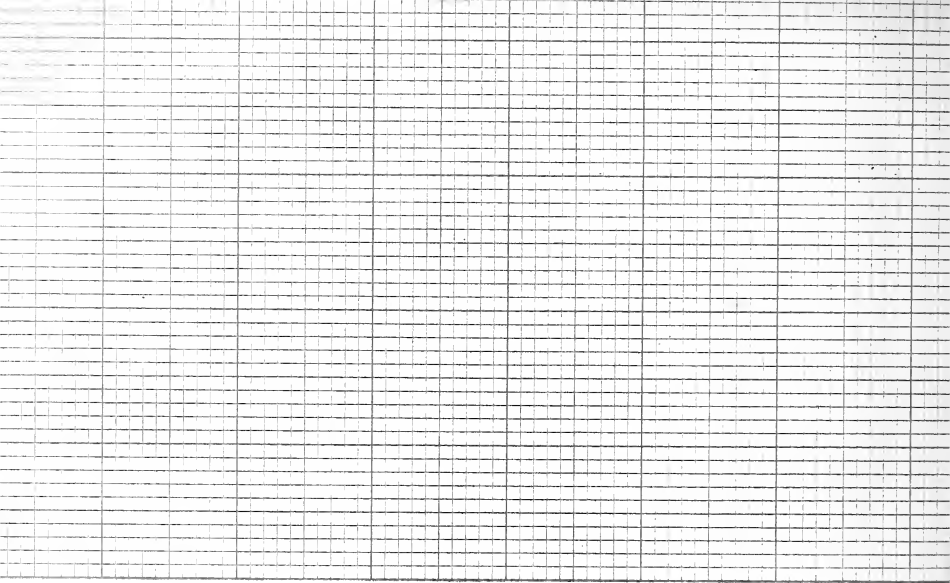
X-RAYS SIMPLY EXPLAINED. A handbook on the theory and practice of Radio-telegraphy. By R. F. HOWGRAVE-GRAHAM. A most instructive and interesting work. 93 pages, profusely illustrated.

ELECTRIC LIGHTING FOR AMATEURS. A Practical Guide to the installation of light on a small scale, describing the construction of lamps, lamp-holders, switches, batteries, etc., etc. By PERCIVAL MARSHALL. 80 pages, 45 illustrations.

ELECTRICAL APPARATUS SIMPLY EXPLAINED. A first-rate little book describing the principles and working of some of the electrical appliances in general use. 80 pages, 35 illustrations.

SIMPLE SCIENTIFIC EXPERIMENTS. How to perform entertaining and instructive experiments with simple home-made apparatus with 59 illustrations.







DEC 2 1912

LIBRARY OF CONGRESS



0 019 934 528 A